



Section 9: Verified Credits, Diploma Seals, and Board-Approved Credentials 2006-2007

Substitute Examinations for CTE Students

- Student-Selected Verified Credit
- Career and Technical Education Seal
- Advanced Mathematics and Technology Seal



Section 9: Verified Credits, Diploma Seals, and Board-Approved Credentials

Standard and Verified Credits

A *standard credit* is based on a minimum of 140 clock hours of instruction and successful completion of the requirements of the course.

A *verified credit* is based on a standard credit plus a passing score on the end-of-course SOL test (or other test as described in the Standards of Accreditation 8 VAC 20-131-110). A standard credit may not be verified more than once.

A *student-selected verified credit* is a credit for a course that includes a test approved by the Virginia Board of Education. (According to SOA 8 VAC 20-131-110.B, footnote 5: A student may utilize additional tests for earning verified credit in computer science, technology, or other areas as prescribed by the Board in 8 VAC 20-131-110.B.)

Student-Selected Verified Credit in Career and Technical Education

A student must successfully complete

- a course or course sequence that prepares him or her to earn a Board-approved credential, **and**
- the assessment required by the certifying or licensing agent.

In November 2005, the Board of Education approved selected industry certification, state licenses, and occupational competency assessments (credentials) for use in awarding student-selected verified credit in approved career and technical education courses or course sequences. These student-selected verified credits are valid for the 2005-2006 school year. The list in this section will be updated when the Board approves credentials during the 2006-2007 school year.

Criteria for Earning Student-Selected Verified Credit

Student-selected verified credit will be awarded for credential examinations that meet all of the following criteria:

- Industry certification or licensure examinations that are approved to satisfy the requirements for the Board of Education's Career and Technical Education Seal and/or the Board of Education's Seal of Advanced Mathematics and Technology will satisfy requirements for student-selected verified credits.
- Occupational competency assessments from the National Occupational Competency Testing Institute (NOCTI) are approved for verified credit only.
- **Teacher Certification Requirements:** For students to be eligible to receive student-selected verified credits, their teacher must be certified by the issuing organization relative to the industry certification or licensure. In the case of a CTE program area where there are potential multiple certifications, the teacher must be certified in at least one industry certification that is related to the course and/or course sequence. Exception: There is no teacher certification requirement for students to receive verified credits upon passing a selected NOCTI assessment related to their CTE program.
- A standard credit may not be verified more than once.

One student-selected verified credit will be awarded for passing each certification or licensure examination or occupational competency assessment that meets all of the above criteria if the student earns only one standard unit of credit in the career and technical education concentration or specialization.

Two student-selected verified credits will be awarded for passing each certification or licensure examination or occupational competency assessment that meets all of the above criteria if the student

- meets the CTE concentration or specialization course requirements for program completer, and
- earns at least two standard units of credit in the CTE concentration or specialization.

Diploma Seals

In September 2000, the Board of Education approved criteria for selecting and approving certifications and licenses to satisfy the requirements for the Career and Technical Education Seal and the Advanced Mathematics and Technology Seal.

The examination must be in a CTE field that confers a certification from a recognized industry, trade, or professional association. For the technology requirements of the Board's Seal of Advanced Mathematics and Technology, students may elect to pass a Board-approved exam that confers college-level credit in a technology or computer science area.

- The examination must be standardized and graded independently of the school or school division in which the student is enrolled.
- The examination must be knowledge-based.
- The examination must be administered on a multi-state or international basis.
- The course of study for which the student receives a certification must be designed to prepare the student for an occupation or occupational area or for the college-level credit in an occupation or occupational area.

To earn a *Career and Technical Education Seal*, a student must

- fulfill the requirements for either a standard or advanced studies diploma, and
- complete a prescribed sequence of courses in a CTE concentration or specialization, and
- maintain a B or better average in CTE courses, **or**
- pass an exam that confers certification from a recognized industry, trade, or professional association or
- acquire a professional license in a career and technical field.

To earn an *Advanced Mathematics and Technology Seal*, a student must

- fulfill the requirements for either a standard or advanced studies diploma, and
- satisfy all mathematics requirements for the Advanced Studies Diploma with a B average or better, and
- pass an exam that confers certification from a recognized industry, trade, or professional association, **or**
- pass an exam approved by the Board that confers college-level credit in a technology or computer science area.

Credentials That Meet Board Criteria for Student-Selected Verified Credit and Diploma Seals

Name of Credential/Examination	Issuing Organization	Meets Board of Education Criteria for		
		Student-Selected Verified Credit	Career and Technical Education Seal	Advanced Math and Technology Seal
A+ Certification	CompTIA	x	x	x
A+ Certification: Operating Systems Technologies Examination	CompTIA	x	x	x
A+ Certification: Core Hardware Examination	CompTIA	x	x	x
ACCESS	American Culinary Federation, Inc. (ACF)	x	x	
Accounting (Basic) Assessment	National Occupational Competency Testing Institute (NOCTI)	x		
Accounting (Complete) Assessment	NOCTI	x		
Administrative Assisting Assessment	NOCTI	x		
Adobe Certified Expert	Adobe Systems Incorporated	x	x	x
Advanced Concepts of Business and Marketing Certificate	ASK Institute (DECA/MarkED)	x	x	
Advertising and Design Assessment	NOCTI	x		
Agriculture Mechanics Assessment	NOCTI	x		
Air Conditioning Certification	HVAC Excellence	x	x	
Air Cooled Gas Engine Assessment	NOCTI	x		
Architectural Drafting Assessment	NOCTI	x		
Audio-Visual Communications Assessment	NOCTI	x		
AutoCAD Certifications (includes 2000, 2002, 2004)	Brainbench	x	x	
Automotive Technician (any exam from Automobile Test Series)	National Institute for Automotive Excellence (ASE)	x	x	
Automotive Youth Education Systems (AYES) Exit Examinations (Pass any two exit exams)	Automotive Youth Education Systems	x	x	
Barber License	Virginia Board of Barbers and Cosmetology	x	x	
Basic Principles of Construction: Residential Construction Academy Examination	Delmar Thomson Learning/Home Builders Institute	x	x	
BICSI Registered Installer, Level 1	BICSI (International Telecommunications Association)	x	x	
CAD Assessment	NOCTI	x		
Brainbench Desktop Publishing Certifications (Pass any one test in this category.)	Brainbench	x	x	x

Name of Credential/Examination	Issuing Organization	Meets Board of Education Criteria for		
		Student-Selected Verified Credit	Career and Technical Education Seal	Advanced Math and Technology Seal
Brainbench Network Administration Certifications (Pass any one test in this category.)	Brainbench	X	X	X
Brainbench Software Development Certifications (Pass any one test in this category.)	Brainbench	X	X	X
Brainbench Systems Administration Certification (Pass any one test in this category.)	Brainbench	X	X	X
Brainbench Technical Support Certifications (Pass any one test in this category.)	Brainbench	X	X	X
Brainbench Web Administration Certifications (Pass any one test in this category.)	Brainbench	X	X	X
Brainbench Web Design and Development Certifications (Pass any one test in this category.)	Brainbench	X	X	X
Cabinetmaking Assessment	NOCTI	X		
Carpentry Assessment	NOCTI	X		
Carpentry, National Construction Career Test	National Center for Construction Education & Research (NCCER)	X	X	
Carpentry Level One, National Construction Career Test	NCCER	X	X	
Carpentry: Residential Construction Academy Examination	Delmar Thomson Learning/Home Builders Institute	X	X	
Certification for Legal Professionals (ALS)	The Association for Legal Professionals	X	X	
Certified Computer Service Technician (CST)	Electronics Technicians Association (ETA)	X	X	X
Certified Dental Assistant: Infection Control Examination (ICE)	Dental Assisting National Board, Inc.	X	X	
Certified Dental Assistant: Radiation Health and Safety Examination (RHS)	Dental Assisting National Board, Inc.	X	X	
Certified Electronics Technician Associate (CETA)	ETA	X	X	
Certified Fiber Optics Installer	The Association of Communications and Electronics Schools, International	X	X	
Certified Internet Webmaster Associate	ProsoftTraining	X	X	X
Certified Internet Webmaster Associate: Internet Business Foundations Examination	ProsoftTraining	X	X	X
Certified Internet Webmaster Associate: Network Technology Foundations Examination	ProsoftTraining	X	X	X

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Certified Internet Webmaster Associate: Site Development Foundations Examination	ProsoftTraining	X	X	X
Certified Internet Webmaster Professional	ProsoftTraining	X	X	X
Certified Novell Administrator (CNA)	Novell	X	X	X
Certified Satellite Dish Installer	ETA	X	X	
Cisco CCNA Academy Certificate (any two end-of-course exams, Levels 1-4)	Cisco Systems	X	X	X
Cisco CCNA Examination: Interconnecting Cisco Networking Devices	Cisco Systems	X	X	X
Cisco CCNA Examination: Introduction to Cisco Networking Devices	Cisco Systems	X	X	X
Cisco Certified Networking Associate	Cisco Systems	X	X	X
Collision Repair	NOCTI	X		
Collision Repair and Refinishing Technician (ASE) (any exam from Collision Repair and Refinish Test Series)	NATEF	X	X	
Collision Repair and Refinishing Technology	NOCTI	X		
Commercial Air Conditioning Certification	HVAC Excellence	X	X	
Commercial Foods Assessment	NOCTI	X		
Commercial Pesticide Applicator Certification	Virginia Department of Agriculture and Consumer Services	X	X	
Commercial Refrigeration Certification	HVAC Excellence	X	X	
Construction Electricity Assessment	NOCTI	X		
Construction Masonry—Blocklaying Assessment	NOCTI	X		
Construction Masonry—Bricklaying Assessment	NOCTI	X		
Copper Based Cabling Certification	RBT Systems, Inc.	X	X	
Core: Introductory Craft Skills, National Construction Career Test	NCCER	X	X	
Cosmetology License	Virginia Board of Barbers and Cosmetology	X	X	
Cosmetology	NOCTI	X		
Criminal Justice	NOCTI	X		
Customer Support Specialist Certification	Help Desk Institute	X	X	X
Data Cabling Installer Certification	ETA	X	X	
Dental Assisting Assessment	NOCTI	X		
Diesel Engine Mechanics Assessment	NOCTI	X		

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		Student-Selected Verified Credit	Career and Technical Education Seal	Advanced Math and Technology Seal
Drafter Certification	American Design Drafting Association	x	x	
Early Childhood Care & Education Assessment	NOCTI	x		
Electrical Certification	HVAC Excellence	x	x	
Electrical Construction Assessment	NOCTI	x		
Electric Heat Certification	HVAC Excellence	x	x	
Electrical, National Construction Career Test	NCCER	x	x	
Electrical Principles: Residential Construction Academy Examination	Delmar Thomson Learning/Home Builders Institute	x	x	
Electronic Technology Assessment	NOCTI	x		
Emergency Medical Technician	Virginia Department of Health, Office of Emergency Services	x	x	
EPA Technician Certification (Core, I, II, III)	Environmental Protection Agency (Authorized Testing Entity)	x	x	
Fiber Optic Network Cabling Certification	RBT Systems, Inc.	x	x	
Fiber Optics Installer Certification	ETA	x	x	
Firefighter I Certification	Virginia Department of Fire Programs	x	x	
Food Production, Management, and Services Assessment	NOCTI	x		
Floriculture—Greenhouse Assessment	NOCTI	x		
Forestry Products & Processing Assessment	NOCTI	x		
Fundamental Concepts of Business and Marketing Certificate	ASK Institute (DECA/MarkED)	x	x	
Fundamentals of Wireless LANs Certificate	Cisco Systems	x	x	x
Gas Heat Certification	HVAC Excellence	x	x	
General Drafting and Design Assessment	NOCTI	x		
Graphic Communications Technology Assessment	NOCTI	x		
Graymark Cable Installation Certification	Graymark International	x	x	
Greenhouse Operators Certification Program	Southeast Greenhouse Growers Association	x	x	
Health Assisting Assessment	NOCTI	x		
Heat Pump Certification	HVAC Excellence	x	x	
Heating, Electrical, Air Conditioning Technology (HEAT) Examination	HVAC Excellence	x	x	
House Wiring: Residential Construction Academy Examination	Delmar Thomson Learning/Home Builders Institute	x	x	

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HVAC: Residential Construction Academy Examination	Delmar Thomson Learning/Home Builders Institute	x	x	
Home Health Aide Assessment	NOCTI	x		
Horticulture—Floriculture Assessment	NOCTI	x		
Horticulture—Landscaping Assessment	NOCTI	x		
Horticulture—Olericulture Assessment	NOCTI	x		
Hospitality Management—Food and Beverage Option Assessment	NOCTI	x		
Hospitality Management—Lodging Option	NOCTI	x		
HVAC, National Construction Career Test	NCCER	x	x	
Industrial Maintenance Mechanic Assessment	NOCTI	x		
IC ³ (Internet and Computing Core Certification)	Certiport	x	x	x
iNet+	CompTIA	x	x	x
Installer Core Certification (HVAC-NATE)	North American Technician Excellence, Inc. (NATE)	x	x	
International Computer Driving License (ICDL)	ICDL US	x	x	x
IT Essentials Certificate, Level 1	Cisco Systems	x	x	x
IT Essentials Certificate, Level 2	Cisco Systems	x	x	x
Java Programming Examination	Cisco Systems	x	x	x
Light Commercial Heating & Air Conditioning	Air Conditioning and Refrigeration Institute (ARI)	x	x	
Linux+ Certification Program	CompTIA	x	x	x
Lodging Management Program Certification, Level 1	American Hotel and Lodging Association (AH&LA)	x	x	
Lodging Management Program Certification, Level 2	AH&LA	x	x	
Machining Skills Level 1 (Pass any Machining Level 1 examination with performance component.)	National Institute for Metalworking Skills, Inc. (NIMS)	x	x	
Macromedia Certified Professional	Macromedia	x	x	x
Manufacturing Technology Assessment	NOCTI	x		
Masonry, National Construction Career Test	NCCER	x	x	
Master CIW Administrator	ProsoftTraining	x	x	x
Master CIW Designer	ProsoftTraining	x	x	x
Master CIW Enterprise Developer	ProsoftTraining	x	x	x

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		Student-Selected Verified Credit	Career and Technical Education Seal	Advanced Math and Technology Seal
Master CIW Web Site Manager	ProsoftTraining	X	X	X
Medical Assisting Assessment	NOCTI	X		
Metalworking and Fabrication Assessment	NOCTI	X		
Microsoft Certified Applications Developer	Microsoft	X	X	X
Microsoft Certified Professional (Pass any one MCP exam.)	Microsoft	X	X	X
Microsoft Certified Systems Administrator	Microsoft	X	X	X
Microsoft Certified Systems Engineer	Microsoft	X	X	X
Microsoft Office Specialist (MOS) (Pass any one unique MOS exam at core level.)	Microsoft	X	X	
Nail Technician License	Virginia Board of Barbers and Cosmetology	X	X	
National Automotive Technicians Education Foundation (NATEF) End of Program Test Series Examinations (Pass any two exams.)	NATEF	X	X	
National Health Care Foundation Skills Standards Assessment	NOCTI	X		
National Professional Certification in Customer Service	National Retail Federation Foundation	X	X	
Network+ Certification	CompTIA	X	X	X
NRDA Certification (Dental Assisting)	National Allied Health Registry/National Association for Health Professionals	X	X	
NRDA Certification (Medical Assisting)	National Allied Health Registry/National Association for Health Professionals	X	X	
Nurse Aide	Virginia Board of Nursing	X	X	
Nursing Assisting Assessment	NOCTI	X		
Oil Heat Certification	HVAC Excellence	X	X	
Oracle Certified Program Examinations (Pass any OCP exam.)	Oracle Corporation	X	X	X
Outdoor Power Equipment Certifications (Pass any one Outdoor Power Equipment test.)	Equipment and Engine Training Council (EETC)	X	X	
Parts Specialist (ASE) (any exam from Parts Specialist Test Series)	ASE	X	X	
Plumbing Assessment	NOCTI	X		
Plumbing: Residential Construction Academy Examination	Delmar Thomson Learning/Home Builders Institute	X	X	

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Precision Machining	NOCTI	x		
Pre-Engineering Assessment	NOCTI	x		
PrintED Certification (any one exam)	Graphic Arts Education and Research Foundation	x	x	
Production Agriculture Assessment	NOCTI	x		
ProStart Program Certification (Levels 1 and/or 2)	Education Foundation of the National Restaurant Association	x	x	
Real Estate Salesperson	Virginia Real Estate Board	x	x	
Refinishing Technology Assessment	NOCTI	x		
Residential Air Conditioning and Heating Certification (ARI)	Air Conditioning and Refrigeration Institute	x	x	
Retail Commercial Baking Assessment	NOCTI	x		
Retail Trades Assessment	NOCTI	x		
SENSE Training Program Certification (Welding)	American Welding Society	x	x	
START Certification	AH&LA	x	x	
Student Electronics Technician Certification (SET)	ETA	x	x	
Sun Certified Programmer for Java 2 Platform	Sun Microsystems	x	x	x
Telecommunications Electronics Technician Certification	ETA	x	x	
Television Broadcasting Assessment	NOCTI	x		
UNIX Examination	Cisco Systems	x	x	x
Virginia Pharmacy Technician Examination	Virginia Board of Pharmacy	x	x	
Visual Communications Assessment	NOCTI	x		
Voice and Data Cabling Certification	Cisco Systems	x	x	x
Web Design Examination	Cisco Systems	x	x	x
Welding Assessment	NOCTI	x		
Welding, National Construction Career Test	NCCER	x	x	
WOW Certified Apprentice Webmaster	World Organization of Webmasters	x	x	x
WOW Certified Web Administrator Apprentice	World Organization of Webmasters	x	x	x
WOW Certified Web Designer Apprentice	World Organization of Webmasters	x	x	x
WOW Certified Web Developer Apprentice	World Organization of Webmasters	x	x	x

